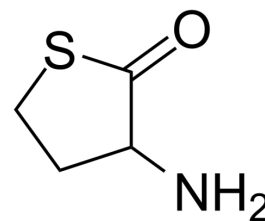


## DL-Homocysteine thiolactone hydrochloride

<b>Cat. No.:</b>	HY-101404
<b>CAS No.:</b>	6038-19-3
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>8</sub> ClNOS
<b>Molecular Weight:</b>	153.63
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



HCl

### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (325.46 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>6.5091 mL</td> <td>32.5457 mL</td> <td>65.0915 mL</td> </tr> <tr> <td>5 mM</td> <td>1.3018 mL</td> <td>6.5091 mL</td> <td>13.0183 mL</td> </tr> <tr> <td>10 mM</td> <td>0.6509 mL</td> <td>3.2546 mL</td> <td>6.5091 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	6.5091 mL	32.5457 mL	65.0915 mL	5 mM	1.3018 mL	6.5091 mL	13.0183 mL	10 mM	0.6509 mL	3.2546 mL	6.5091 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (16.27 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.27 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (16.27 mM); Clear solution</li> </ol>																					

### BIOLOGICAL ACTIVITY

<b>Description</b>	DL-Homocysteine thiolactone hydrochloride is a cyclic amino acid derivative that exhibits root-growth inhibitory activity.
<b>In Vitro</b>	DL-Homocysteine thiolactone hydrochloride shows growth inhibition toward the roots of <i>Brassica campestris</i> and <i>Echinochloa utilis</i> even at the low concentration of 50 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

**Caution: Product has not been fully validated for medical applications. For research use only.**

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